TIMOTHY J. MURPHY

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OVERVIEW

Solutions-oriented Infrastructure Leader with a passion for integrating disruptive new technologies to enhance existing processes and drive key business objectives. Possesses wide range of advanced technical acumen including full stack development, devops, and infrastructure architecture.

IT Governance | Full Stack Development | Project Management | Team Leadership
Computer Networking | Cybersecurity | DevOps | Infrastructure as Code | Data Analysis
Machine Learning | Business Strategy | System Development | Process Innovation

PROFESSIONAL EXPERIENCE

RADAR   2019 – 2020
Infrastructure Engineer

Lead Infrastructure Engineer at RADAR, a platform as a service startup that combines RFID and computer vision to automate retail store processes using proprietary hardware and software. Worked on removing complexity, increasing automation, and brought focus to concentrating on the companies' core competencies. Worked with retail customer's operations teams on deployment integrations with a specific focus on security.

DevOps:
- Automated production deployments for infrastructure and applications in Jenkins CI/CD pipelines to varying endpoints including Azure cloud, private data centers, and GPU devices.
- Leveraged infrastructure as code tools like Terraform, Chef, Azure CLI & Templates, Bash scripting, and Pulumi to deploy and manage GitHub Enterprise, Jenkins, Azure AD (AAD), Azure, Nginx, Docker, Hashicorp & Azure Vault – PKI and Secrets, Bind DNS, Consul, Grafana, Prometheus, JFrog Artifacts, and Kubernetes.
- Reduced monthly cloud cost by ~25% by resizing environments to meet performance requirements while optimizing resources used.
- Improved Azure Cloud infrastructure, including better monitoring and alerting, backups, and failover services.

Infrastructure:
- Managed GSuite, Zoom, Slack, Trello, 1Password, Meraki Firewalls & Wireless, Cisco/Netgear/Transition switches, P2S & S2S VPN (L2TP/IPSec & SSL), and Backblaze for company internal operations.
- Developed a single sign on plan to bring all company development resources under a single IdP.
- Infrastructure management using scripting in Bash and Python.
- Strong knowledge supporting Ubuntu / Alpine docker and server environments.

PROSPERITY NOW   2017 – 2019
Director of IT

Led development on technology stacks to usher in new business and effective process workflows for NPO dedicated to providing financial solutions to limited-income households. Provided hands-on expertise to resolve security conflicts, manage firewall operations, and update networks. Identified opportunities for technical growth in collaboration with senior leadership and executive team.

- Enhanced company safety and reduced time on system reparations by establishing 3 year strategic vision for infrastructure and technology services.
- Liberated time to prioritize mission-driven projects to IT personnel by shifting entire infrastructure from private data center to cloud-based SaaS and IaaS solutions.
- Streamlined financial operations by replacing budgeting tool and transitioning General Ledger to SaaS system.
- Supported mission success through latest machine learning modeling techniques to effectively test predictive models.
- Secured organization with cutting-edge cybersecurity frameworks and postures.

A.I. SOLUTIONS 2014 – 2017

Technical Lead, IT

Oversaw high-performing software team on application and technology design, and OS / hardware platform development. Managed technical infrastructure hosted at HQ, multiple remote sites, and the public cloud at multiple major providers.

Responsibilities:

- Provided supplementary assistance to 450+ users nationwide in direct support of NASA, Air Force, and Army DoD contracts.
- Served as integral member of moving team for a.i. solutions headquarters office, briefing senior leadership on new technologies, facility design, and construction oversight.
- Drove business development for cybersecurity-focused government contracts, writing winning proposals based on different security frameworks including NIST 800.
- Developed and maintained strategic vendor relationships, conducting DAR analysis on services, equipment, and products to identify best-fit partnership for enterprise.
- Met ISO9001 requirements by deploying changes to internal Node.js application tracking purchasing request.

IT Project Management:

- Modernized Space Network's ground communication systems by using python and modern techniques to streamline speed and volume requirements for NASA SCNS contract.
- Implemented rigorous overhaul of network resources to include firewall, switches, VPN, security appliances, and a wireless infrastructure with 802.1x certificate-based authenticity as lead architect.
- Deployed leading next-gen IPS to enhance protection against threats based on network traffic insights.
- Consolidated 125+ servers to ESXi 6.0 with network and vSphere security, creating virtual and systematic barriers between infrastructure, production machines, and contractual data.
- Enhanced customer service experience by streamlining new ticket system to accurately track resource allocation and reduce support response time.
- Designed and implemented new disaster recovery site, reducing operational downtime from 2 weeks to less than 4 hours in the case of emergency.
- Simplified business operations by implementing Active Directory redundancy, split DNS, and a segregation of IP address spacing and assigning DHCP scopes to correct nodes.
- Improved system integrity by deploying and maintaining financial systems including test applications and database servers.
- Created new pathway plan integrating 13 systems into single login structure using cloud-based Identity and Access management solution.

CFED 2012 – 2014

Network & Systems Administrator

Architected and deployed multiple networks to replace internal infrastructure in support of business operations at several connected sites. Provided assistance to 60+ users at any given time, reduced RTO and RPO from 24+ hours to 15 minutes. Negotiated new contracts with multiple vendors to reduce costs by over 23% with improved SLA and uptime.

UNITED STATES MARINE CORPS 2004 – 2008

Manager

Oversaw numerous activities to guide units on operational safety and protocol including route and supply preparations, multi-field cross-training, and movement briefings in combat areas of operations.

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EDUCATION

UNIVERSITY OF MARYLAND
Bachelor of Science in Computer Networking & Security   2013
Bachelor of Art in Criminology & Criminal Justice   2011

Certifications

GENERAL ASSEMBLY | **Data Science**   2019
GEORGE WASHINGTON UNIVERSITY | **Full Stack Development Bootcamp**   2017

TECHNICAL SKILLS

Development & Operations

JavaScript | Python | Node.js | Nginx | Docker | GIT | Github | Chef | Terraform | Vault | Bash
Firebase | React.js | CSS | Bootstrap | MySQL | MongoDB | JSON | REST APIs
Unit Test | D3 | Spyder | Scikit-learn | Pandas | Kubernetes | Jenkins

Infrastructure

vSphere | AWS | Azure | Okta | Salesforce | EqualLogic | Nimble | Cisco | Meraki
IOS | HPE | Exchange | Office365 | GSuite | Deltek | Intune | Linux Redhat; Ubuntu; Alpine | PBX
AAD | PKI | MFA | Wireless | Windows 2008R2; 2012R2; 7; 8; 8.1; 10 | DNS | ASA